

# Bridge Inspection Report

**03164**  
**SH 239-01- LM 2.76**  
**over**  
**I 55-SEC 12**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

## TABLE OF CONTENTS

	PAGE NUMBER
LOCATION MAP	3
NATIONAL BRIDGE INVENTORY	7
ELEMENTS	8
PICTURES	9
SKETCHES	15

Inspector:

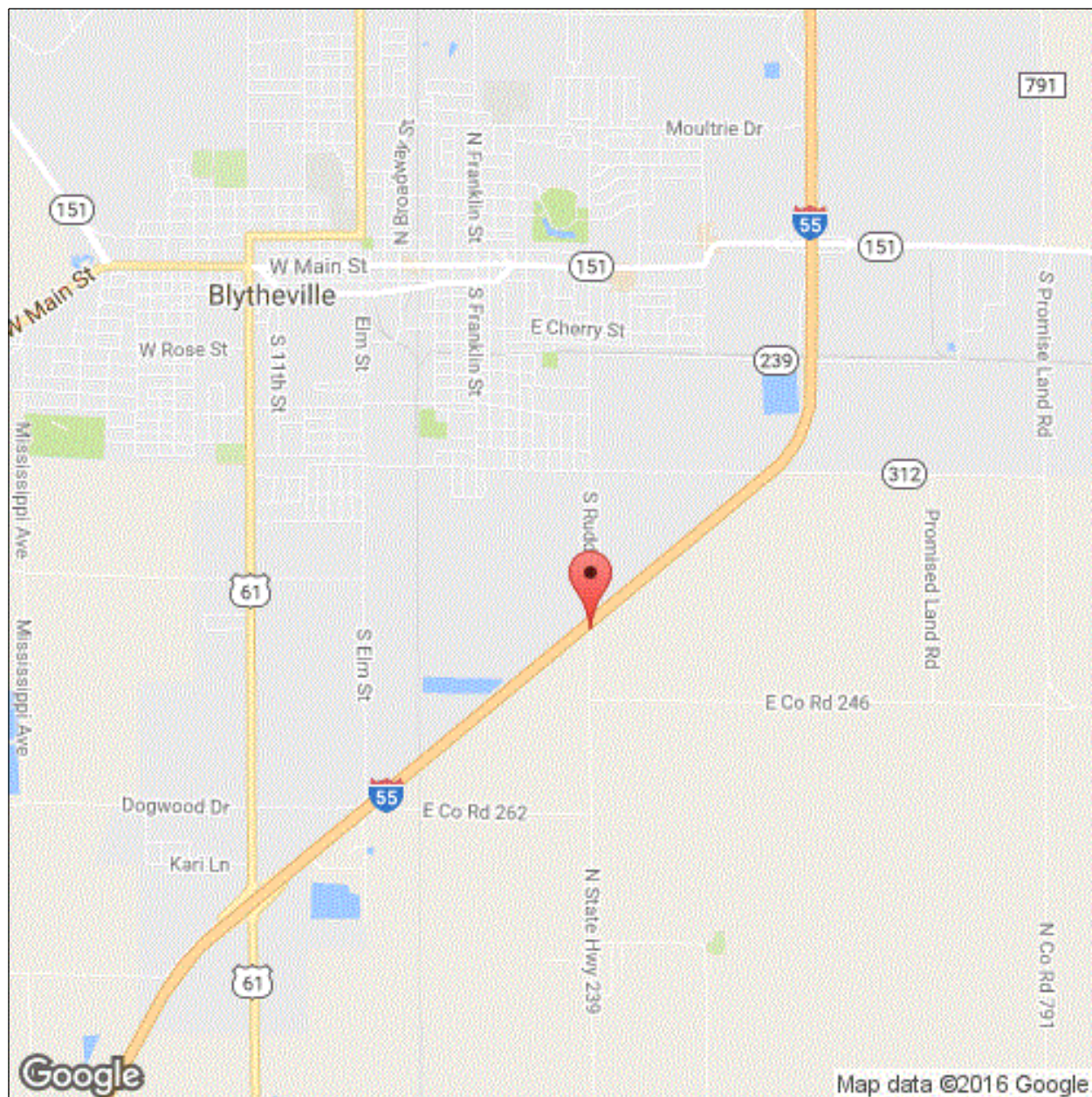
Structure Number: 03164

Inspection Date:

Facility Carried: SH 239-01- LM 2.76

## Bridge Inspection Report

### Location Map



Latitude: 35.90436

Longitude: -89.89187



Inspector:

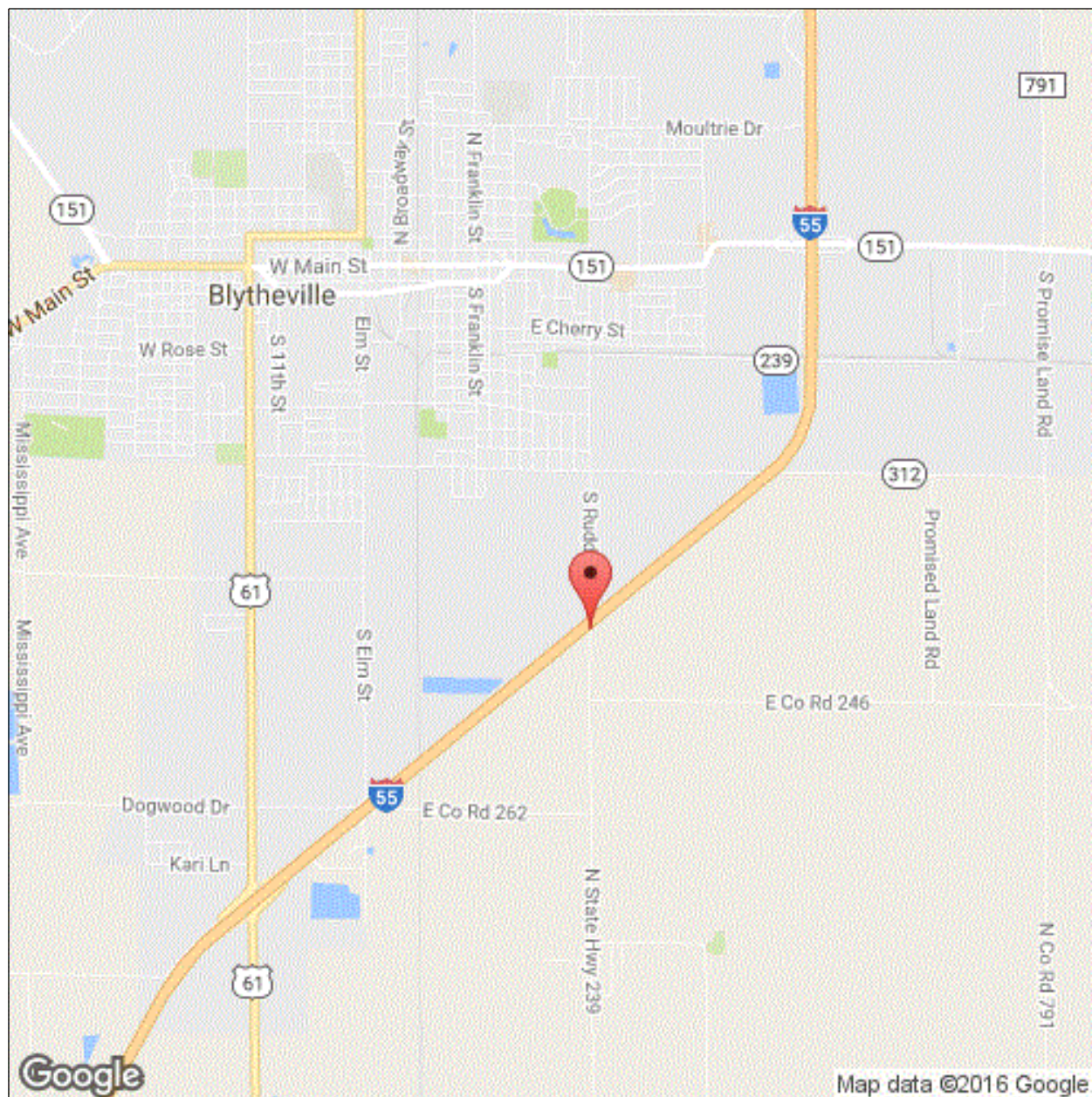
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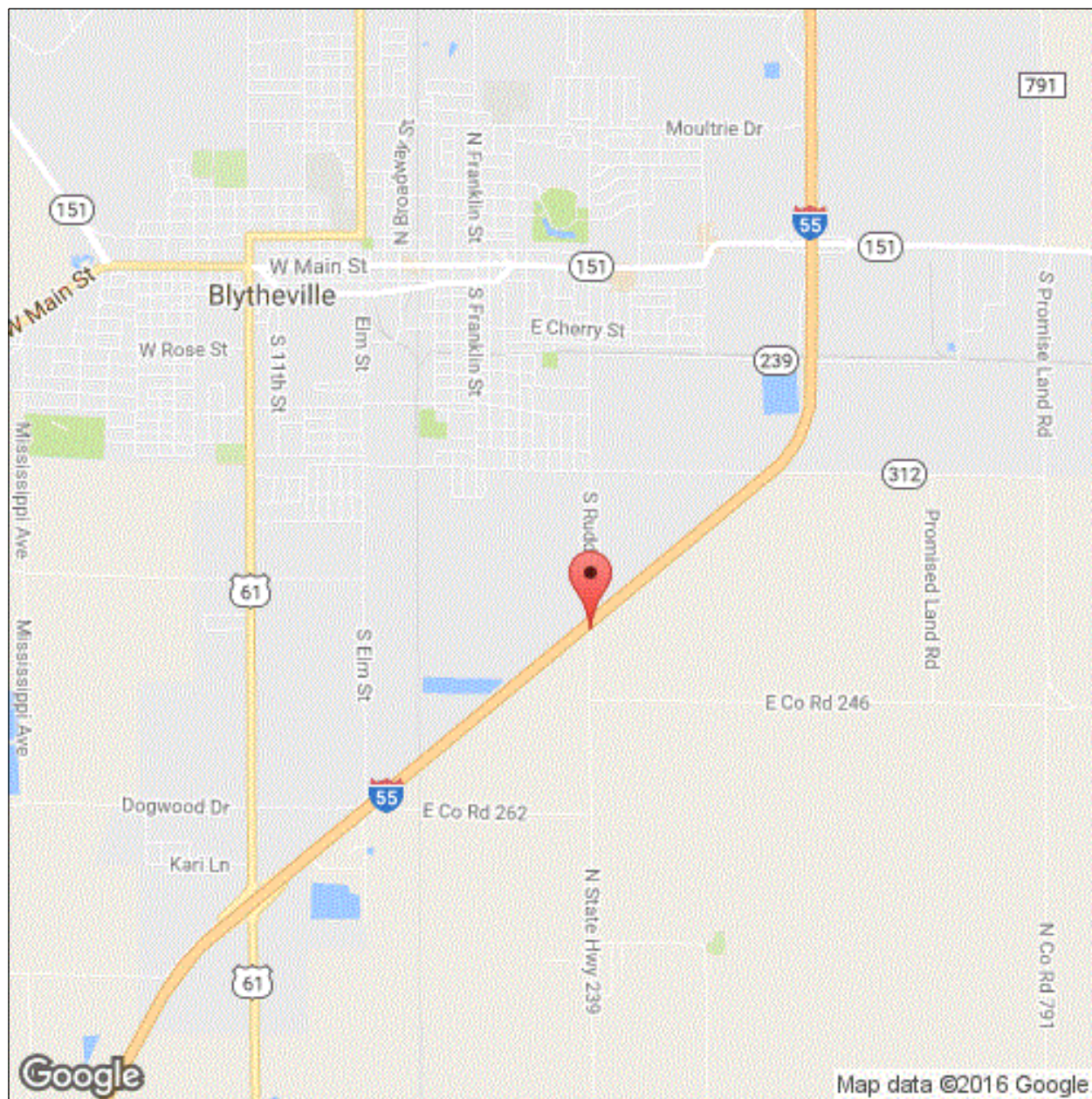
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## **Bridge Inspection Report**

### **Executive Summary**



Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	10/16/2018
(8) STRUCTURE NUMBER	03164	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 239 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	10 (3) COUNTY CODE 093	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	I 55-SEC 12	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	SH 239-01- LM 2.76		
(9) LOCATION	2.3 MI N SH 148 JCT		
(11) MILEPOINT 2.750	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.90436	(17) LONGITUDE -89.89187		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	7
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	4 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1960 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	4
(42) TYPE OF SERVICE	ON 1 UNDER 1	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 04	(64) OPERATING RATING	48.0
(29) AVERAGE DAILY TRAFFIC	1400 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	29.0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	85 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.5 RIGHT 1.5	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	25.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	5
(52) DECK WIDTH, OUT-TO-OUT (ft.)	31	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	29.9	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	28.9	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	H 16.25	36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 11.5	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	8	SUFFICIENCY RATING	73.2 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	1708 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	8745	sq. ft.	5476	1569	1700	0
1080 - Delamination/Spall/Patched Area		544		0	0	544	0
1090 - Exposed Rebar		27		0	0	27	0
1120 - Efflorescence/Rust Staining		358		0	139	219	0
1130 - Cracking (RC and Other)		2340		0	1430	910	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	1415	ft.	0	1375	40	0
1000 - Corrosion		1415		0	1375	40	0
515 - Steel Protective Coating		12379	sq. ft.	0	2522	9506	351
3440 - Effectiveness (Steel Protective Coatings)		12379		0	2522	9506	351
<b>205 - Reinforced Concrete Column</b>	1- Ben.	6	each	5	0	1	0
1090 - Exposed Rebar		1		0	0	1	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	122	ft.	112	10	0	0
1130 - Cracking (RC and Other)		10		0	10	0	0
<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	117	ft.	113	2	2	0
1130 - Cracking (RC and Other)		4		0	2	2	0
<b>305 - Assembly Joint without Seal</b>	1- Ben.	193	ft.	148	0	45	0
2360 - Adjacent Deck or Header		45		0	0	45	0
<b>311 - Movable Bearing</b>	1- Ben.	20	each	0	0	20	0
1000 - Corrosion		20		0	0	20	0
<b>313 - Fixed Bearing</b>	1- Ben.	20	each	0	0	20	0
1000 - Corrosion		20		0	0	20	0
<b>330 - Metal Bridge Railing</b>	1- Ben.	577	ft.	576	0	1	0
7000 - Damage		1		0	0	1	0
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	577	ft.	577	0	0	0



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## Bridge Inspection Report

## Pictures

15

PHOTO 1

### Description

PHOTO 1

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# Bridge Inspection Report

## Pictures

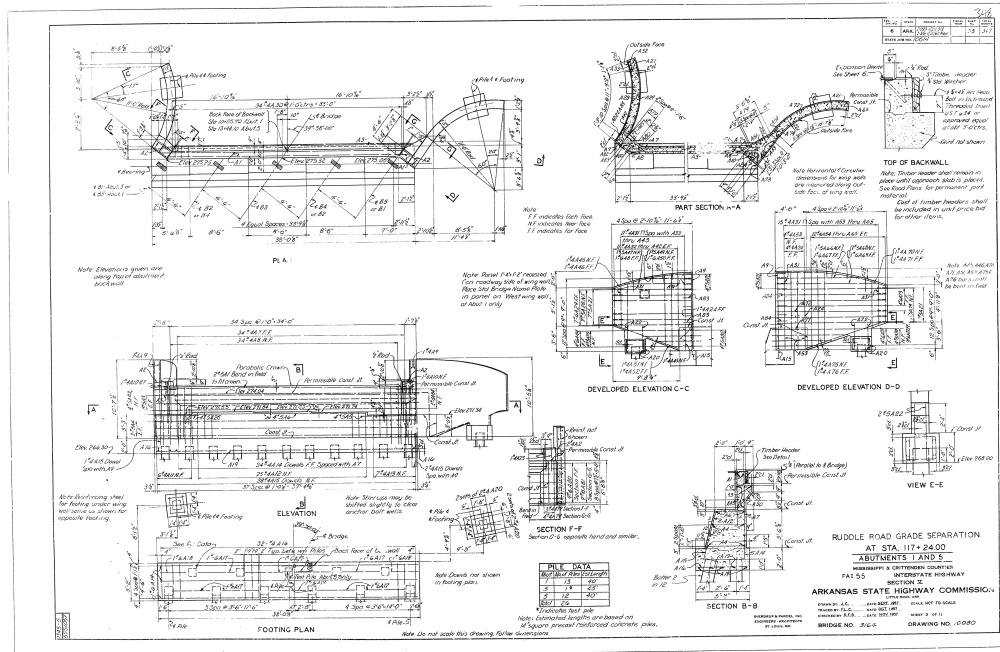


PHOTO 2

### Description

PHOTO 2

### Description



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## Bridge Inspection Report

## Pictures

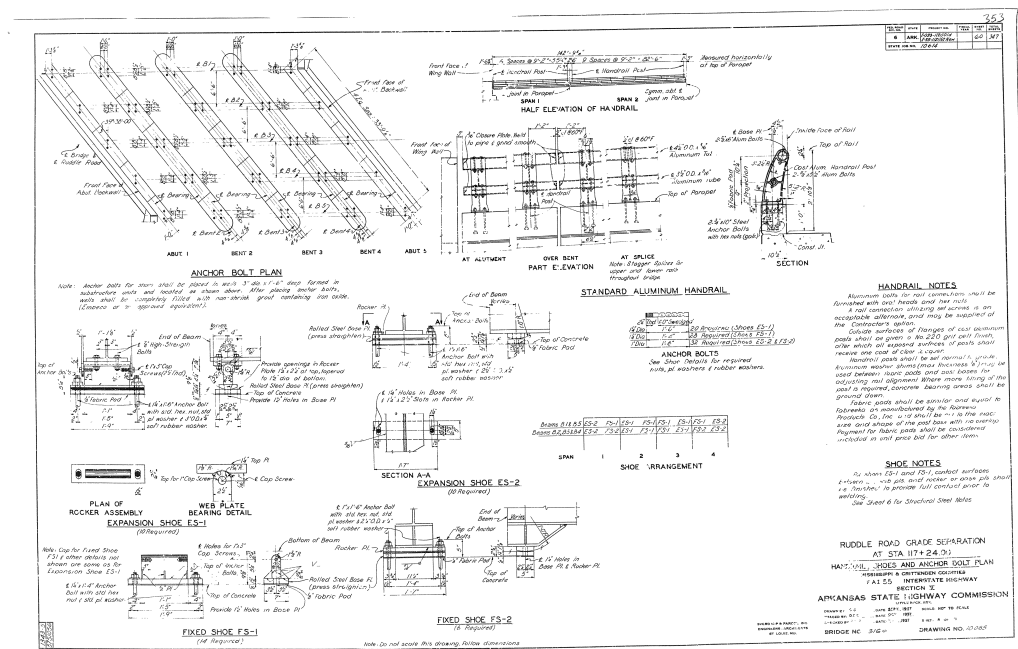


PHOTO 3

### Description

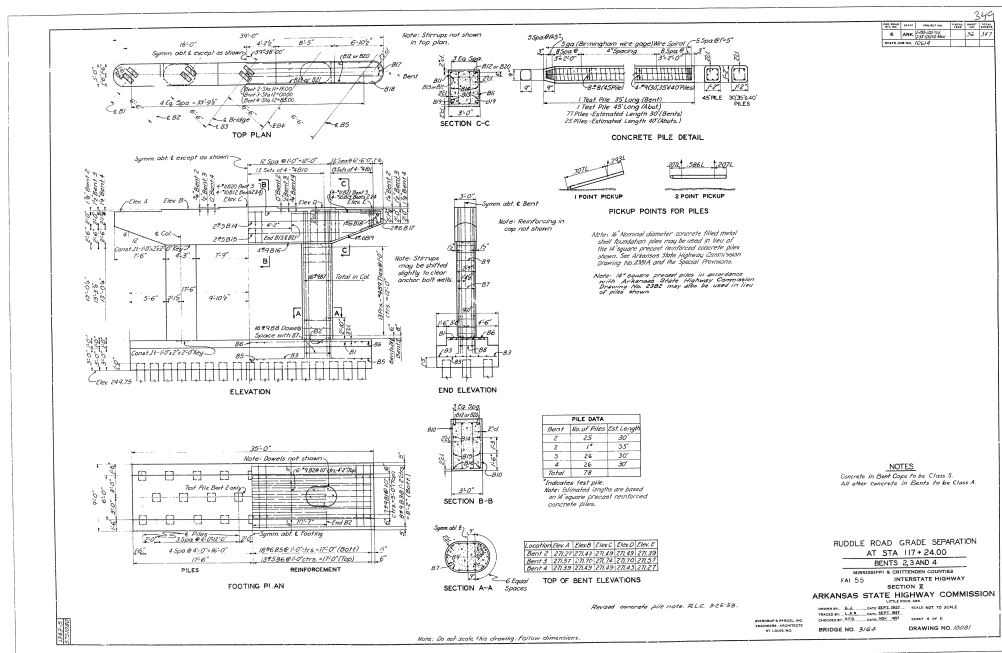


PHOTO 4

### Description

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## Bridge Inspection Report

## Pictures

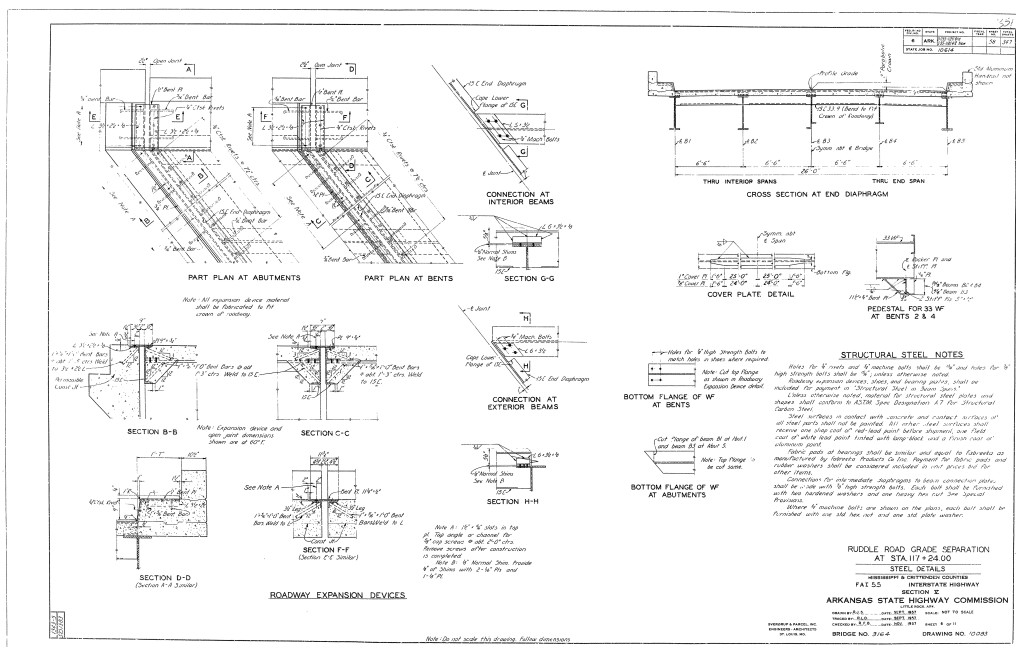


PHOTO 5

### Description

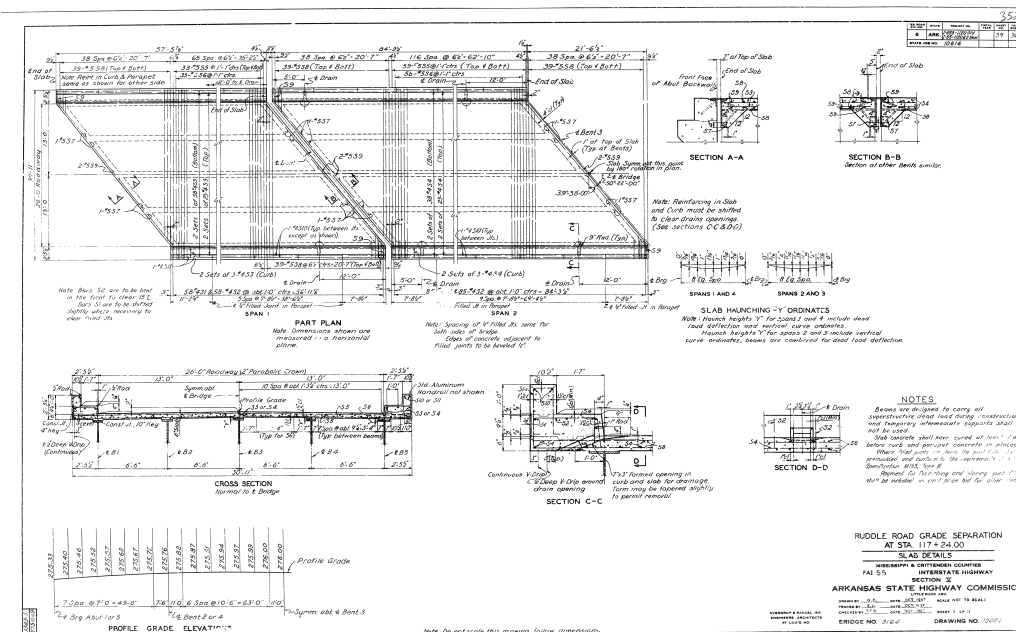


PHOTO 6

### Description



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## Bridge Inspection Report

## Pictures

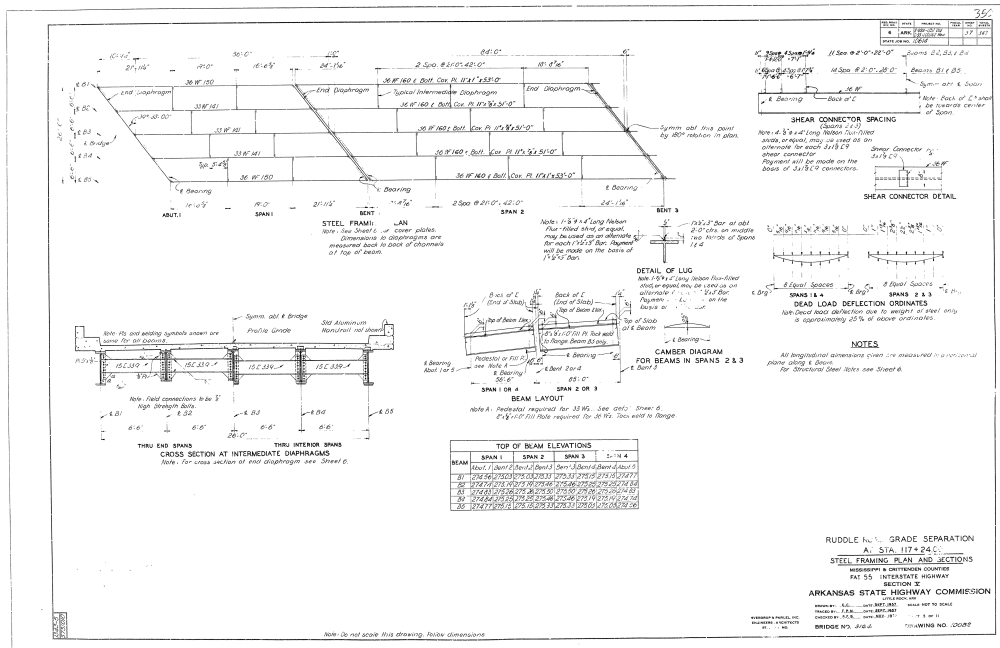


PHOTO 7

Description

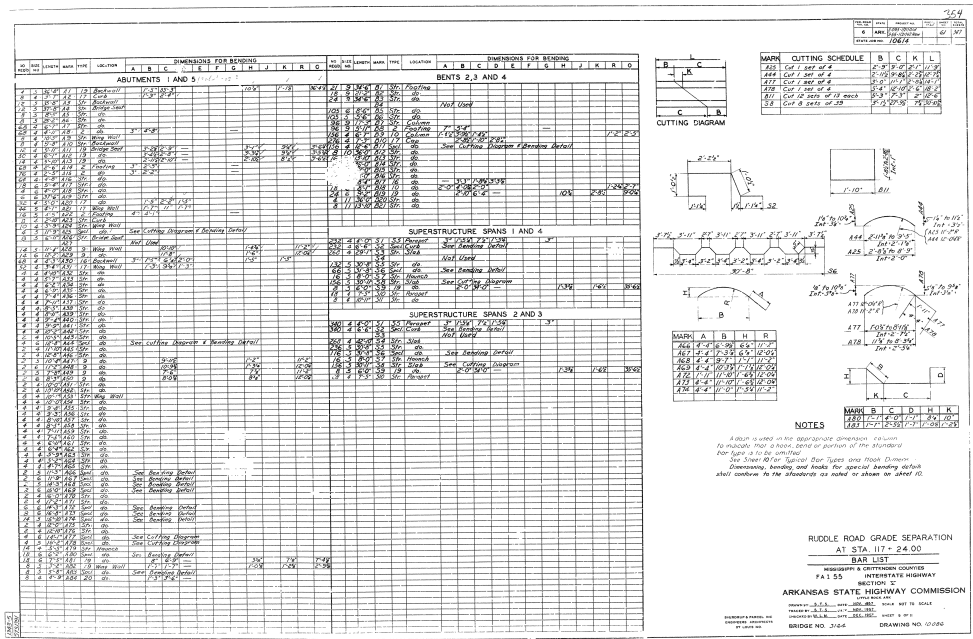


PHOTO 8

Description

Inspector:

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## Bridge Inspection Report

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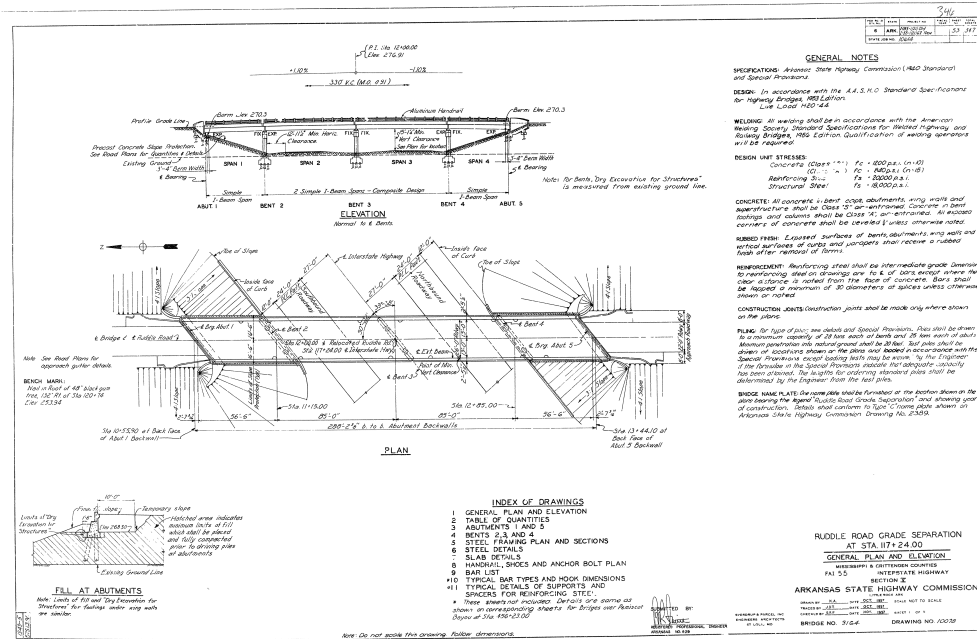


PHOTO 9

Description

**Inspector:**

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**Bridge Inspection Report**

**Sketches**

Inspector:

Structure Number: 03164

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 10/22/2012 12:00:00 AM

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Steel Girders have 70% paint deterioration and rust with pitting, see 2016 photo.  
Ends of Girders near concrete haunch has initial section loss.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 10/22/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Majority of Bearings are rusted with initial loss of section and some pack rust, see 2016 photo.  
Majority of Anchor Bolt Nuts are rusted with up to 100% loss of section, see 2016 photo.

Span 1 Bearing 3 Bent 1 has one anchor bolt nut missing.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1 Description

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 10/22/2012 12:00:00 AM

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Top of Concrete Deck has several minor to moderate unsealed cracks, spalls with exposed rebar and patches, see 2018 photo of span 4.

Bottom of Deck has some cracks with efflorescence, delamination and some spalls with rebar exposed, see 2016 & 2018 photo Span 3 Bay 1.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description

Stage: Monitor



PHOTO 2      Description      Span 3 soffit



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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3 Description

Stage: Monitor



PHOTO 4 Description Span 3 bay 1

Stage: Monitor



PHOTO 5 Description Span 4 deck

Stage: Monitor



PHOTO 6 Description

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 7      Description



Inspector:

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### Bridge Inspection Report

## Maintenance Needs

Date Reported: 10/22/2012 12:00:00 AM

Priority: D - Routine

Work Code:

---

### Deficiency Description:

Assembly Joint Bent 2 has 38LF of delamination.

Assembly Joint Bent 3 has 5LF of rebar exposed due to lack of steel coverage.

Assembly Joint Span 3 Bent 3 in left lane, has a 2ft. X 4in. X 1 1/2in. deep spall with exposed rebar and it has been repaired with asphalt.

Assembly Joint Span 3 Bent 3 in right lane, has a 5ft. X 6in. X 1 1/2in. deep spall with exposed rebar and it has been repaired with asphalt.

### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Structure Number: 03164

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 10/25/2016

Priority: C - Important

Work Code:

---

#### Deficiency Description:

Concrete Embankment Protection under Span 1 has some settlement with a void 8in. deep and up to 2ft. back under concrete, see 2016 photo.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Open



PHOTO 1 Description